SMECKA, Karel

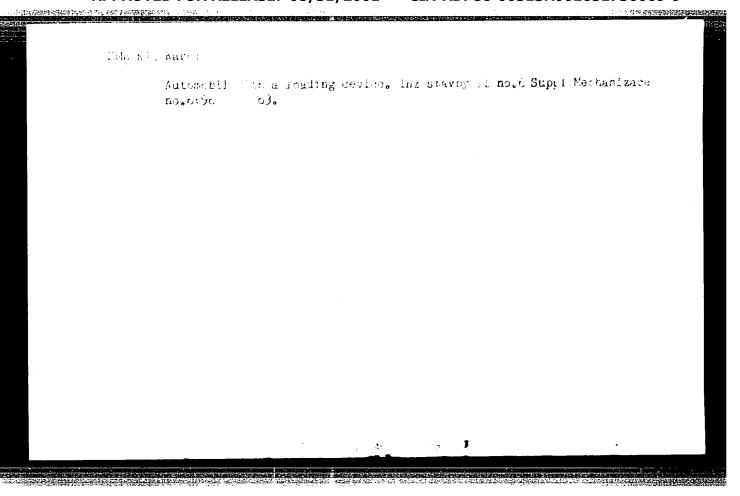
"Explosion hydrodynamics" by J. S. Jakovlev [Yakovlev, Yu. S.].

Reviewed by Karel Smroka. Stroj vyr 12 no.6:462 Je '64.

"Industrial methods of ventilation system assembly" by L.D.

Paskov [Pashkov, t.o.]. Reviewed by Karel Smroka. Stroj

vyr 12 no.6:462 Je '64.



SMRCKA, Karel

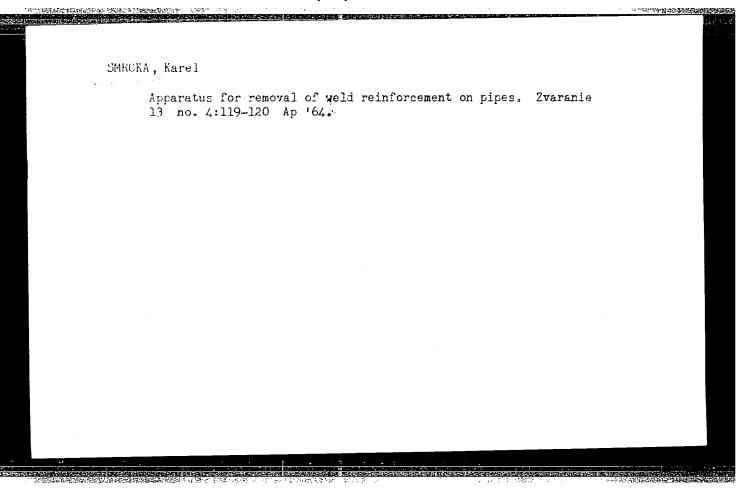
Technical and economic conference of the Montazni zavod Transporta. Stroj vyr 12 no.3:226 '64.

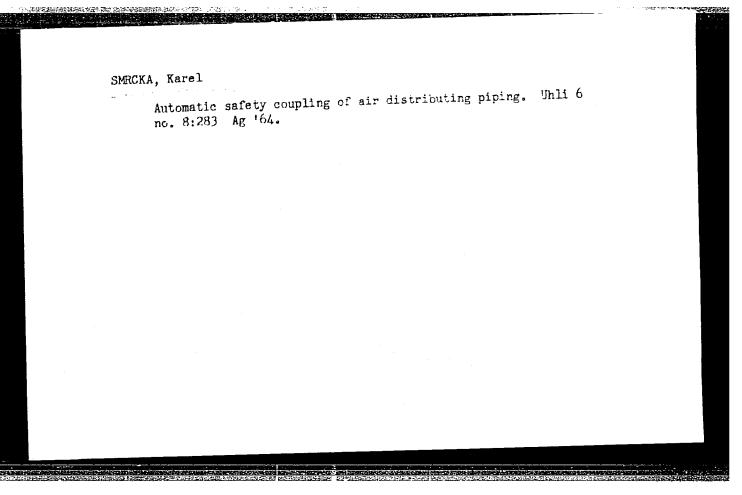
"Mechanization of hot die forging" by N.P. Katkov, V.V. Bassejin, M.P. Katkov, N.A. Krovjancev. Reviewed by Karel Smrcka. Ibid.:233.

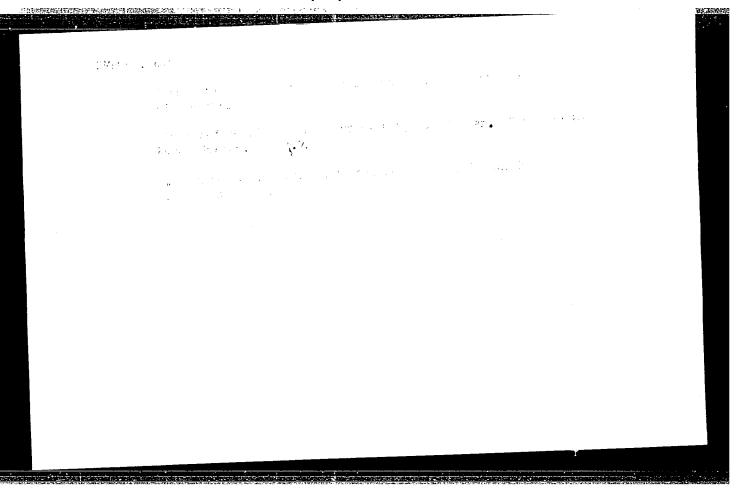
"Handbook on cranes." Pt. 3. Reviewed by Karel Smrcka. Ibid. \$234.

"Mounting of steam boilers" by [Ing.] H. Forster. Reviewed by Karel Smrcka. Ibid.:235.

1. Secretary of the GOS, Czecheslowak Scientific Technological Society, Section of Assembling.







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46211=66 SOURCE CODE: UR/0317/66/000/001/0027/0029 ACC NR. AP6017076 (\mathcal{H}) Smrchka, K. (Engineer; Lieutenant colonel in Czechoslovak army) ORG: None 13 TITLE: New training methods SOURCE: Tekhnika i vooruzheniye, no. 1, 1966, 27-29 TOPIC TAGS: military training, training procedure, ground force training, military tank AESTRACT: New methods of training brought into use by the Czechoslovakian Army for training the personnel of armored tank units are discussed. The old method of technical training conducted in tank companies is replaced by training on the battalion level. The tank crews usually are divided into two groups: mechanic-drivers and the crew chief with gunners. The monthly training schedule of a mechanic-driver group provides 3 days in the fall period and 2 days in winter and summer. Other groups have 2 and 1 day per month. Once per month, the entire battalion is assembled for training exercises. The advantages of a battalion-type training (tactical operations, overall control, coordination, efficient use of equipment) are reviewed and the need in providing the groups with training aids and supplies is stressed. An example of a two-day training program for a tank battalion is presented in a table including subjects, questions, places of training, time, number of trainees, equipment and grades of training officers. Orig. art. has: one table. SUB CODE: 15/ SUBM DATE: None 1/1

L = 202LO - 66 EVT(1)/ETC(f)/EWG(m)/T IJP(c)

ACC NR: AP6010315

SOURCE CODE: CZ/0037/65/000/006/0466/0475

AUTHOR: Bednar, Jan; Smrcka, Ludvik; Misek, Karel

ORG: Institute of Solid State Physics, CSAV, Prague (Ustav fyziky pevnych latek CSAV); /Smrckn/ Faculty of Technical and Nuclear Physics, CVUT, Prague (Fakulta technicke a jadorne fysiky CVUT)

TITLE: Exact measurement of changes in the density of solids

SOURCE: Coskoslovensky casopis pro fysiku, no. 6, 1965, 466-475

TOPIC TAGS: specific density, metal physical property, hydrostatics

ARSTRACT: The article describes a method of determining small changes in the density of metallic samples by differential hydrostatic weighing. High sensitivity was achieved by placing the comparison and investigated samples in the same bath; the influence of variation of the equilibrium position of the balance was suppressed by interchanging the samples. The method permits the determination of the relative change in density of a sample 1 cu cm in volume with an accuracy of up to $\pm 2 \times 10^{-6}$. Improved sensitivity can be achieved by using larger samples. Orig. art. has: 2 figures and 6 formulas. \sqrt{JPRS}

SUB CODE: 20, 11 / SUBM DATE: 17Aug6h / ORIG REF: 001 / OTH REF: 007

L 21331-66 T/EWP(t) IJP(c) JD/JG

ACC NR: AP5015929

SOURCE CODE: CZ/0055/65/015/006/0418/0424

40

AUTHOR: Smrcka, L.; Misek, K.; Bednar, J.

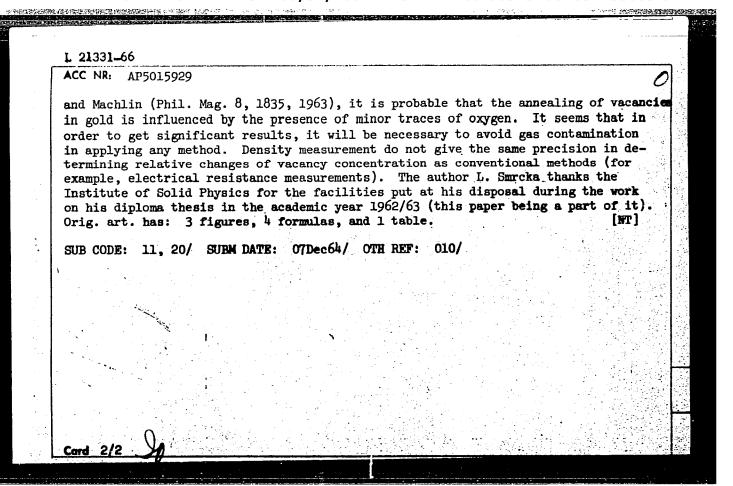
ORG: [Smrcka] Faculty of Technical and Nuclear Physics, formerly of Czech Technical University, presently of the Institute of Solid State Physics, Prague; [Misek; Bednar] Institute of Solid State Physics, Czechoslovak Academy of Sciences, Prague

TITLE: The density of quenched gold (Short report read at the conference on Point defects in quenched metals, ANL, June 1964)

SOURCE: Chekhoslovatskiy fizicheskiy zhurnal, v. 15, no. 6, 1965, 418-424

TOPIC TAGS: gold, platinum, silver, copper, aluminum, specific density, metal oxidation, annealing, quenching, differential method

ABSTRACT: A precision hydrostatic differential method for measuring small density differences of solid bodies was used for the determination of the activation energy of vacancy formation and migration in quenched gold. The authors believe that precise density measurement can be used to study the imperfection in metals. The desirable higher sensitivity can be achieved with larger specimens. The method is laborious and time consuming. Special precautions had to be taken even with gold and platinum which have a stable surface. In other metals (J. Bernar; L. Smrcka; K. Misek; Cs. cas. fys. A 15, 1965), such as copper, silver, or aluminum, it is difficult of prevent the oxidation of the surface and the dissolution of oxygen and of other elements in the specimen during annealing and quenching. According to Jeannotte



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| | | | The (7.0) reaction on cadmium and tin. M. Rozkos. | |
| • | | | M. Smrčka, and O. Jakubeck (R47/Avi. Only., Frague). MJC(50) | 1 |
| | | | The nuclear photoeffect is studied on Sn and Cd; in contrast | |
| | | | rays were used. The exptl. arrangement of a previous paper (CA 53, 18670e) was used. Results of interest include the discreteness of the energy spectrum and the un- | 7 |
| • : | | | conventional form of the angular distribution. With Sn, | |
| 7 | | • | shape of the energy spectrum corresponds to the Wikinson theory (C4 52 9804) of giant resonance: with Cd, the | |
| | | | energy spectrum is similar to the evapa, spectrum. The | |
| | | | do not satisfy the commonly used relations corresponding to existing theories of the nuclear photoeffect. They can, however, be described quite well by empirical equations | |
| | | | which contain assocd. Legendre polynomials, the results there features of both a direct and a collective process. A | |
| | | | satisfactory explanation of the results would require a new theory including both types of processes. A. Kremheiler | |
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Z/032/61/011/008/007/009 E073/E535

AUTHORS:

Smrckova, J. and Nemec, M.

TITLE:

Combination of varnish coatings with a (sprayed-on)

chemically reduced silver layer

PERIODICAL: Strojírenství, 1961, Vol.11, No.8, p.635

TEXT: The classical method of reduction of silver coatings from silver nitrate by means of formaldehyde can also be effected by spraying by means of a two-nozzle spray-gun. Reduction of the silver takes place on the activated surface of the body immediately after impingement of the finely atomized solutions. The formed coating is about 3 μ thick, non-porous and adheres strongly to metal, glass and organic materials. To prevent pumping, a transparent varnish is provided on top of the silver coating. This method is particularly favourable in the timber industry (as a substitute for imported metal foils) and for treatment of small size consumer goods.

1959, Prague: SVUOM 14/59.

[Abstractor's Note: Virtually complete translation.]

| SM RGOVA, L. | |
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| | |
| New Czechoslovak engraved glassware, L. Smrckova. 1 Czechoslovak Glass Rev., 20 [0] 11-14 (1955) (In Engrish): abstracted in Ind. Diamond Rev., 15 [180] B207 (1955).—Techniques incorporating diamond linear and pinpoint engraving on vases, etc., are used. 4 figures. V.R.E. | |
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SMECKOVA, L.

"Our table glassware at the Trienmale, 1957 and at the Brussels Fair, 1958." P. 119.

SKLAR A KERAMIK. (Ministerstvo lehkeho prumyslu). Praha, Czechoslovakia, Vol. 9, No. h, Apr. 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959. Uncla.

SMRCKOVA, Ludvika, prof., zaslouzila umelkyne

Musert of Glass in Corning, U.S.A. Sklar a keramik 15 no.2:56
F 1/5

Two hundred years of the Baccarat Glassworks. Ibid.:64

SIMKOVIC, I.; BOLF, J.; SISKA, K.; GUPKA, M.; SMRECBANSKY, V.; SCHNORFER, M.; ZIMA, P.

Apparatus for artificial blood circulation designed in Czechos slovakia. Eksper. khir. 5 no.6:16-22 N-D '60. (MIRA 14:2) (PERFUSION PUMP (HEART))

SIMKOVIC, I.; SMRECANSKY, V.; TRANCIK, J.

Contribution to the function of disc oxygenators. Bratisl. lek. listy 41 no.10:577-585 '61.

1. Z II chirurgickej kliniky Lek. fak. Univ. Komenskeho v Bratislave, prednosta akademik SAV K. Siska, nositel Radu prace.

(HEART MECHANICAL)

SHISHKA, K.[Siska, K.]; SHIMKOVITS, I.[Simkovic, I.]; GUBKA, M.[Hubka, M.]; SMRECHANSKIY, V.[Smrecansky, V.]; SHNORER, M.[Snorer, M.]

Surgery for mitral stenosis using artificial circulation. Khirurgiia no.4:2-6 162. (MIRA 15:6)

1. Iz 2-y khirurgicheskoy kliniki meditsinskogo fakuliteta Universiteta imeni Komenskogo i otdeleniya eksperimentalinoy khirurgii Instituta eksperimentalinoy meditsiny Slovatskoy akademii nauk (zav. - akad. K. Shishka), Bratislava.

(MITRAL VALVE_SURGERY)
(BLOOD_CIRCULATION, ARTIFICIAL)

SMRECHANSKIY, V. [Smrecansky, V.]; SHISHKA, K. [Siska, K.]; SHIMKOVITS, I. [Simkovic, I.]; SHNORER, M. [Snorer, M.]; GUBKA, M. [Hubka, M.]

Some problems of perfusion in artificial circulation. Khirurgiia no.4:85-92 '62. (MIRA 15:6)

1. Iz 2-y khirurgicheskoy kliniki meditsinskogo fakul'teta universiteta imeni Komenskogo i otdeleniya eksperimental'noy khirurgii Instituta eksperimental'noy meditsiny Slovatskoy akademii nauk (zav. - akad. K. Shishka), Bratislava.

(BLOOD-_CIRCULATION, ARTIFICIAL)

SHISHKA, K. [Siska, K.]; SHIMKOVITS, I. [Simkovic, I.]; GUBKA, M. [Hubka,M]; SMRECHANSKIY, V. [Smrecansky, V.]; SHNORER, M. [Snorer, K.]

Surgery using an apparatus for extracorporeal circulation. Khirurgiia no.9:18-22 '62. (MIRA 15:10)

l. Iz 2-y khirurgicheskoy kliniki meditsinskogo fakul'teta Universiteta imeni Komenskogo v Bratislave i otdeleniya eksperimental'noy khirurgii (zav. - akad. K.Shishka) Instituta eksperimental'noy meditsiny Slovatskoy akademii nauk.

(PERFUSION PUMP (HEART))

SHISHKA, K.; SHIMKOVITS, I.; GUBKA, M.; SMRECHANSKIY, V.; SHNORRER, M.

Experience acquired in surgery by the use of an artificial heart and lungs. Trudy Inst.eksp.i klin.khir.i gemat. AN Gruz. S3SR (MIRA 16:2)

10:13-23 *62.

(PERFUSION PUMP (HEART))

(CARDIOVASCULAR SYSTEM-SURGKRY)

SHIMKOVITS, I.; BOL'F, Yu.; SHISHKA, K.; GUEKA, M.; SMRECHANSKIY, V.;
SHNORRER, M.; ZIMA, P.

Apparatus fo Gzech design for artificial blood circulation.

Apparatus fo Gzech design for artificial blood circulation.

Trudy Inst.eksp.i klin.khir.i gemat. AN Gruz.SSR 10:25-34

(MIRA 16:2)

162.

(CZECHOSLOVAKIA—PERFUSION PUMP (HEART))

SMRECHANSKIY, V.; SHISHKA, K.; SHIMKOVITS, I.; SHNORRER, M.; GUEKA, M.

Some perfusion problems in artificial blood circulation. Trudy

Inst.eksp.i klin.khir.i gemat. AN Gruz.SSR 10:35-42 '62.

(PERFUSION FUMP (HEART))

(PERFUSION FUMP (HEART))

GUBKA, M.; SHISHKA, K.; SHIMKOVITS, I.; SMRECHANSKY, V.; SHNORRER, M.

Protection of the myocardium during the prevalence of asystole in an intracardiac operation by the use of the appaprtus for artificial blood circulation. Trudy Insteads, i klin.khir. i gemat. AN Gruz.SSSR 10:57-65 162. (MIRA 16:2) (HEART-SURGERY) (BLOOD -GIRCULATION, ARTIFICIAL)

GUEKA, M.; SHISHKA, K.; SHIMKOVITS, I.; SMRECHANSKIY, V.; SHNORRER, M.

Care of the patient following a heart operation with the use of artificial blood circulation. Trudy Inst.eksp.i klin.khir. (MIRA 16:2) i genat. AN Gruz.SSR 10:67-72 '62.

(HEART—SURGERY) (BLOOD—CIRCULATION, ARTIFICIAL)

(POSTOPERATIVE GARE)

SHNORRER, M.; SHISHKA, K.; SHIMKOVITS, I.; GUBKA, M.; SMRECHANSKIY, V.

Changes in coagulation and anticoagulation factors of the blood in artificial blood circulation. Trudy Inst.eksp.i klin.khir. in gemat. AN Gruz.SSR 10:73-76 162. (MIRA 16:2) (BLOOD—COAGULATION) (BLOOD—CIRCULATION, ARTIFICIAL)

GUBKA, M.; SHISHKA, K.; SHIMKOVITS, I.; SMRECHANSKIY, V.; SHNORER, M.

Protection of the myocardium in cardiac arrest during intracardiac interventions with artificial circulation. Khirurgiia 38 no.5: (MIRA 15:6)

1. Iz otdeleniya eksperimental'noy khirurgii (zav. - akad. K. Shishka) Instituta eksperimental'noy meditsiny Slovatskoy akademii nauk.

(HEART, FAILURE) (HEART_MUSCLE) (BLOOD_CIRCULATION, ARTIFICIAL)

SHNORER, M.; SHISHKA, K.; SHIMKOVITS, I.; GUBKA, M.; SMRECHANSKIY, V.

Changes in the coagulation and anticoagulation blood factors during artificial circulation. Khirurgiia 38 no.5:25-27 My '62. (MIRA 15:6)

1. Iz 2-y khirurgicheskoy kliniki meditsinskogo fakul'teta Universiteta imeni Komenskogo v Bratislave i otdeleniya eksperimental'noy khirurgii (zav. - akad. K. Shishka) Instituta eksperimental'noy meditsiny Slovatskoy akademii nauk.

(BLOOD-COAGULATION) (BLOOD-CIRCULATION, ARTIFICIAL)

SISKA, K.; SIMKOVIC, I.; VANZUROVA, E.; SCHNORRER, M.; SMRECANSKY, V.; HUBKA, M.; ONDROUGHOVA, D.

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Postoperative complications and postoperative care of patients operated on with the use of extracorporeal circulation. Bratisl. lek. listy 42 no.9:523-535 ¹62.

1. Z II chir. kliniky Lek. fak. Univ. Komenskeho v Bratislave, prednosta clen koresp. CSAV K. Siska.

(HEART MECHANICAL) (HEART SURGERY compl)
(POSTOPERATIVE CARE)

SIMKOVIC, I.; SMRECANSKY, V.; KRATOCHVIL, M.; CERNY, J.

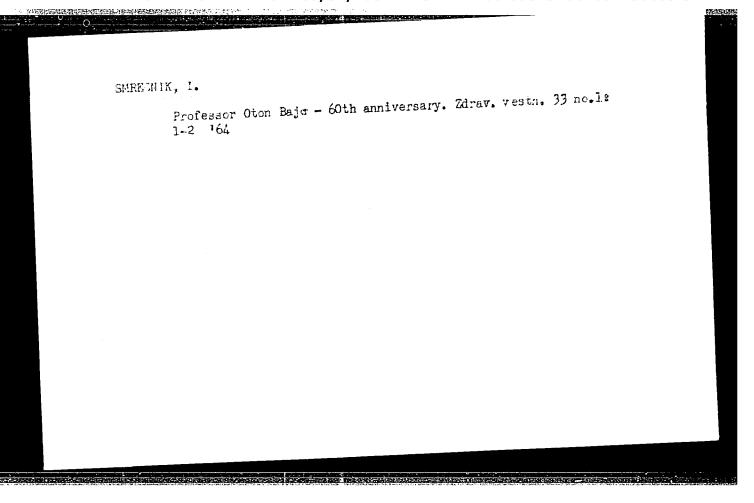
STREET, STREET,

Functional evaluation of membrane pumps. Bratisl. lek. listy 44 no.4:193-198 '64.

Hemodynamic laws in the arterial sector of the extracorporeal circulation. Ibid:199-202

1. II. chirurgicka klinika Lek.fak.Univ.Komenskeho v Bratislave (veduci: akademik K.Siska) a Laboratorium pre vyzkum chirurgickej patofyziologie Lek.fak.Univ.Komenskeho v Bratislave (veduci: prof.M.Kratochvil).





SMRE ZYNUKA, A.

Pietkowska, K.; Smreczynska, A.

Determining the content of citric acid in raw blackberry joice and in wine obtained from it by the process of fermentation." p. 493 (Roczniki, No. 4, 1953, Warsaw)

SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 6, June. 1954, Uncl.

CHRECIYNIKA, A

Piatkowska, K.; Smreczynska, A.

"Determining the amount of manganese in raw r sherry juice in various regions of the country." p. 497 (<u>Hoczniki</u>, No. 4, 1953, Warsaw)

30: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 6, June. 1954, Uncl.

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STARTAGE, J. Supplies not to the lateralists on the ratio or heriptone in Ecland. . 209.

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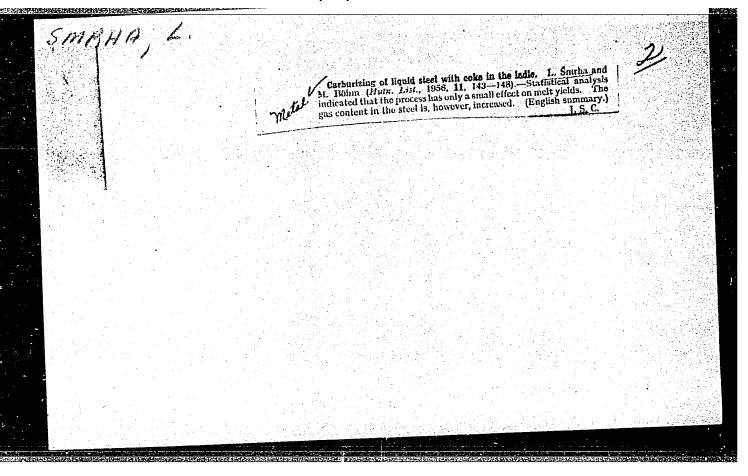
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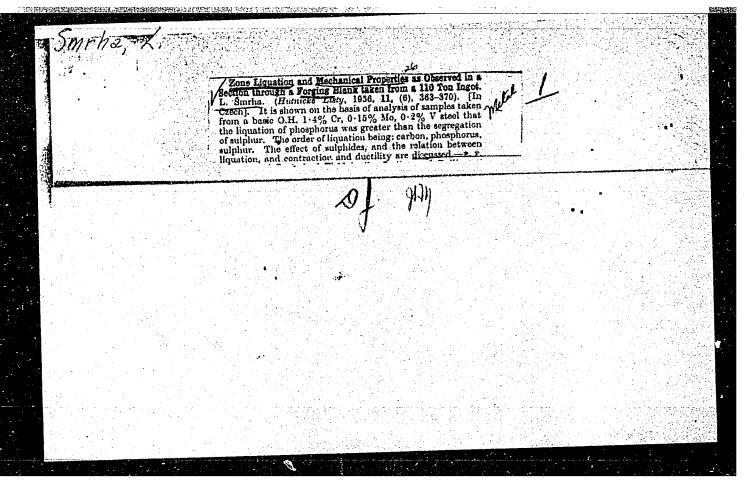
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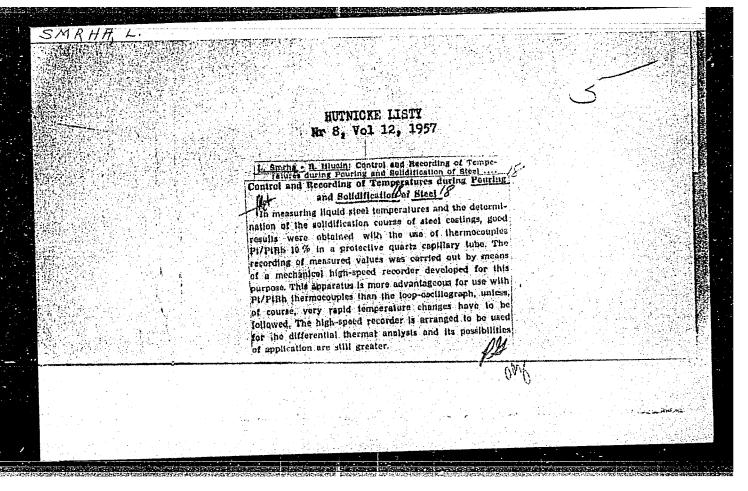
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SMRHA, L.: HLUDIU, R.

Sontrol and recording of temperatures during the pouring and solidification of steel.

p. 711 (Hutnicke Listy) Vol. 12, no. 8, Aug. 1957, Fraha, Czechoslovakia

SO: MONTHLY INDEX OF EAST SUROFEAN ACCESSIONS (MEAT) LC, VOL. 7, NO. 1, JAN. 1958

CZECH/34-59-4-18/18

Smrha, L., Ing. and Kubena, S., Ing. AUTHORS:

Investigations on Mould Coatings (Vyzkum kokilových

TITLE: nátěrů)

Hutnické Listy, 1959, Nr 4, pp 361,- 368 PERIODICAL:

(Czechoslovakia)

In the here described investigations on coatings for steel-ingot moulds, the causes were detected of the ABSTRACT:

unsatisfactory properties of mould coatings based on coaltar pitch. It was found that the content of volatile substances of coaltar pitch is too low to prevent adhesion of the ingot skin to the mould. The authors have examined a large number of various products derived from natural oil and coaltar and also substances based on bakelite resins. The authors have developed inorganic mould coatings which have been throughly tested both by physical and chemical methods in special rigs in which the conditions occurring during casting were simulated and also in normal steelwork operation.

The experiments confirmed that it is advantageous to use mould varnishes based on petroleum (propane asphalt),

benzol resins or phenol-resol resins. Benzol resins

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SMRHA, L.

Effect of casting technology of the ingot mold coatings on the quality of ingots. p.190.

HUTNIK, (Ministerstvo hutniho prumyslu a rudnych dolu) Praha, Czechoslovakia. Vol. 9, no. 6, June 1959.

Monthly List of East European Accessions (EFAI) LC Vol. 8, no. 11, Nov. 1959 Uncl.

SMRHA, Lubomir; BRODSKY, Ivo

Reflect of various activators on the reactivity of exothermic mixtures of non-thermite type. But listy 17 no.2:111-114 F 162.

1. Vyzkumny ustav, Vitkovicke zelezarny Klementa Gottwalda.

SMRHA, Lubomir, inz., C.Sc.; CHVOJKA, Jan, inz.

The problems in using exothermic mixtures. Hut listy 17 no.71472-479 Jl $^{1}62$.

1. Vitkovicke zelezarny Klementa Gottwalda, Ostrava.

SAIP, JIRI; SMRHA, Lubomir; KOSNOVSKY, Zdenek

Exothermic risers of steel castings. Slevarenstvi 11 no.7: 266-272 Jl 63.

1. Vitkovicke zelezarny Klementa Gottwalda, Ostrava - Vitkovice.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001651730009-9"

HERIAN, E.; PUNCOCHAR, Z., inz.; CHVOJKA, Jan, inz.; KECLIK, V., inz.; SMRHA, L., inz.; ZIDEK, M., inz.; HORAK, J., dr. inz.; TEINDL, J.; SEDLACEK, V.

Information on metallurgy. Hut listy 18 no.6:436-450 Je '63.

SMRHA, Inbomir, inz., CSe; CHVOLRA, Jose, Down, RALON, Milen, inz.

Modeling and analysis of pipes in tube mill ingots. But listy 18 no.9:622-635 S'63.

1. Vitkovicke zelezarny Klementa Gottwalda (for Smrha and Chvojka). 2. Vyzkumny ustav hutnictvi zeleza, Praha (for Kanok).

CHVOJKA, Jan, inz.; SMRHA, Lubomir, inz., CSc.

Pipes in circular section ingots teemed without feeder heads. Hut listy 18 no.10:700-707 0 163.

1. Vitkovicke zelezarny Klementa Gottwalda, Ostrava.

"APPROVED FOR RELEASE: 08/31/2001 CIA-R

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MH/MM/JD EXP(k)/EXP(e)/EXP(t)/ETI SOURCE CODE: CZ/0057/05/000/009/0373/0377 L 38759-66 ACC NR: AP6029566 Smrha, Lubomir (Engineer; Candidate of sciences); Lhotsky, Milan (Engineer) AUTHOR: ORG: VZKG, Ostrava TITLE: Investigation of the efficiency of loose powdered insulation of ingot heads during production operations SOURCE: Hutnik, no. 9, 1965, 373-377 TOPIC TAGS: heat transfer coefficient, metal casting, heat insulation, industrial production ABSTRACT: The experiments were conducted at the Steel Works of the Klement Gottwald plant. A theoretical evaluation of the problem indicates that even a drastic reduction of the heat transfer coefficient at the ingot head does not achieve a considerable steel saving in normal commercial casting operations. Perlite, fly ash, a 50:50 mixture of scale and ferrosilicone, vermiculite, and graphite were used for insulation No differences due to the insulation type were observed either in the yield or quality of the product. Orig. art. has: 10 figures and 3 tables. [JPRS] SUB CODE: 13, 20, 05 / SUBM DATE: none / ORIG REF: 004 / SOV REF: 001 OTH REF: 001 2660

SOURCE CODE: CZ/0034/66/000/004/0294/0294

I.V.STACK: Chvorinov, F. (Engineer); Serma, L. (Engineer); Brodsky, I. (Engineer)

ORG: none

TITLE: Shapes for steel or alloy steel casting through the bottom. Class 3lc,
No PV 4567-65

SOURCE: Hutnicke listy, no. 4, 1966, 294

TOPIC TAGS: notal casting, metal surface, steel

ABSTRACT: The article is a surmary of Czechoslovak Patent Application Class 3lc,
14, PV 4567-65, dated 17 July 65. The basis of the invention is the fact that the part of the form which contacts the moltem metal is hollow. Slag ferming powder is added directly in the casting shapes; the process provides ingots with improved surfaces. Orig. art. has: 1 figure. [JPRS: 36,649]

SUB CODE: 13 / SUBM DATE: none

SMRHA, Lubomir, inz., C.Sc. (Ostrava)

Theoretical determination of the size of ingot feeder head on the basis of its thermal balance. Hut listy 17 no.9:626-629 S 62.

Effect of food consumption on trends in the food industry. p.232. (Frumysl Potravin, Vol. 6, No. 5, 1957, Praha, Czechoslovakia)

SC: Monthly List of East European Accessions (EEAL) IC. Vol. 6, No. 9, Sept. 1957. Uncl.

SMRHA, Oldrich; HRUBA, Marie, dr.

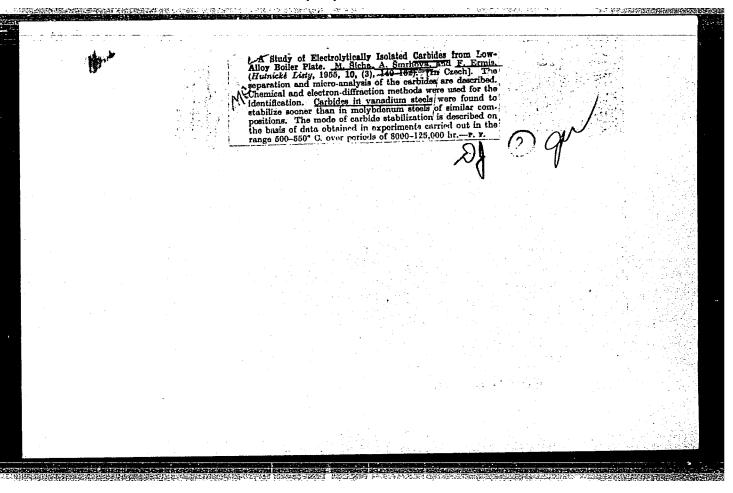
Consumption plan and its importance for the development of food production. Prum potravin 14 no.3:132-135 Mr '63.

T. Vyzkumny ustav ekonomiky potravinarskeho prumyslu, Praha.

SMGHA, V., inz.

Tolerances of dimensions determining the position of bolt hole axes. Strojirenstvi 14 no.1:51-57 Ja*64.

1. Zavody V.I. Lenina, Plzen.



| SMRHOUA, AT | | | |
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| NE SE EN SE E L'ALL BERT EN SE EN | Chemical determination of oxide admixtures from the steels Anna Smrhova Lubomir Brhácek, and Janacek (1978) VZK(3. Ostrava, Czech.). Hut 1973, 253-7(1958).—The prepn. of the sample for an and the detn. of Si, Fe, Al, and Ca were discussed. Chief advantages of this method are simple processed ouble control of the amt. of CaO, and a simple detn. 16 references. | arbon · | |
| | Janaces (1972) VZK(3. Ostrava, Czech.). Hu. | nické alysis The | |
| | chief advantages of this method are simple processionable control of the amt. of CaO, and a simple detn. | sing, of Al. | |
| | 19 reterences. Petr Schiller | ler_i | |
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CZECH/34-59-1-10/28

AUTHORS: Brhacek, Lubomír, RNDr., Janacek, Jiří and Smrhová, Anna, Ing.

TO THE RESIDENCE OF THE PROPERTY OF THE PROPER

Electrolytic Isolation of Non-metallic Inclusions in TITLE:

Steel by means of the Modified Klinger-Koch Apparatus (Elektrolytická isolace nekovových vměstků v oceli

modifikovanou apparaturou Klinger-Koch)

PERIODICAL: Hutnické Listy, 1959, Nr l, pp 54-55 (Czechoslovakia)

ABSTRACT: The Klinger-Koch method is used most extensively for isolating non-metallic inclusions in steel and a variant of it is being used in various Czech laboratories. This method does not always yield satisfactory results, mainly due to the high resistance of the electrolyte and the resulting high potential of the anode. On the basis of published information on Swedish and German experience (Refs 3 and 4), the authors have built an electrolyser with a vertical diaphragm, a sketch of which is shown in Fig 1, p 54. The electrical circuit diagram is shown in Fig 2. Fig 3 shows the potential-current density

(polarization) curves obtained with the hitherto used Card 1/2 electrolyser as well as with the new electrolyser.

CZECH/34-59-1-10/28

Electrolytic Isolation of Non-metallic Inclusions in Steel by means of the Modified Klinger-Koch Apparatus

Table 1 gives a comparison of a few parameters of the new electrolyser with the hitherto used one. Table 2 contains results of the analysis of isolates of oxide inclusions in five low carbon steel specimens; one of the specimens, B1, was isolated with the previously used instrument and the time required for doing so was twice as long. The instrument is being used mainly for isolation of carbides and sulphides. There are 6 figures, 2 tables and 5 references, 1 of which is Czech, 3 German and 1 English.

ASSOCIATION: Výzkum a vývoj VŽKG, Ostrava (Research and Development VŽKG, Ostrava)

Card 2/2

,CZECH/34-59-6-23/23

Smrhova, Anna, Ing. and Janacek, Jiri AUTHORS:

Contribution to the Problems Relating to the TITLE:

Determination of Oxygen on the Basis of the Content of Non-metallic Inclusions in Rimming Steel (Prispevek k problematice stanovení kyslíku podle obsahu nekovových

vměstků v neuklidněných ocelích)

PERIODICAL: Hutnické Listy, 1959, Nr 6, pp 559-564 (Czechoslovakia)

ABSTRACT: Czechoslovak Metallurgical Research Report, Nr 6, 1959. In this brief report the results are described of determining oxide inclusions in rimming steel, according

to a method proposed by I. I. Ansheles, which consists of electrolytic isolation and selective extraction by means of chemical reagents. The method of electrolytic isolation was modified by the authors of this paper to ensure the minimum disruption of less stable components of the inclusions and slight modifications were also made in the method of extraction. Comparative tests made on specimens from a 3.7 ton billet of soft rimming steel

(0.07% C, 0.30% Mn, 0.00% Si, 0.030% P, 0.032% S,

0.006% Al, 0.05% Cr) showed that the total content of Card 1/2

SMRHOVA, Anna, inz.; JANACEK, Jiri

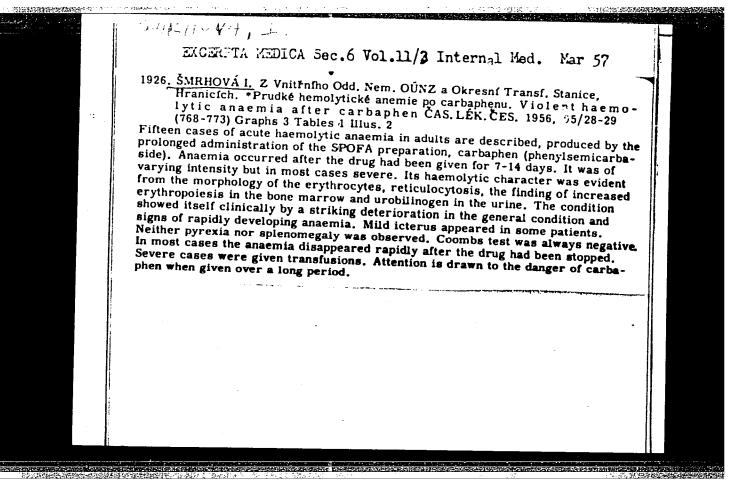
Determination of the aluminum nitride in steel. Hut listy 16 no.6:430-435 Je '61.

1. Vyzkumny ustav, Vitkovicke zelezarny Klementa Gottwalda, Ostrava.

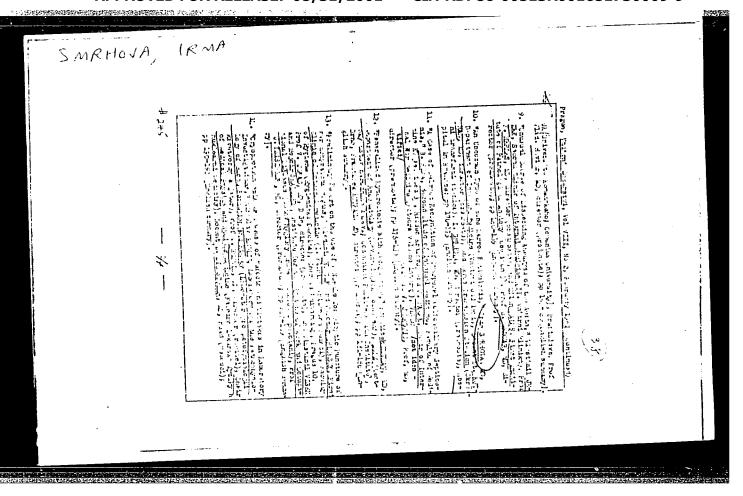
MYSLIVEC, T.; SMRHOVA, A.

Effect of deoxidation with silicon-zirconium on the amount of non-metallic inclusions and on the property of steel. Hut listy 17 no.4:249-256 Ap '62.

1. Vitkovicke zelezarny Klementa Gottwalda, Ostrava.



"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001651730009-9



SMRKINIC, B., dr.; AKERMAN, R., dr.; PEROVIC, S., dr.

Our experiences with ophthalmological examination of newborn infants. Med. glasn. 13 no.7:379-381 Jl '59.

1. Ocni, Ginekolosko-porodajni i Djecji odjel Opce bolnice u Zadru.

(EYE DISEASES in inf. & child)

(INFANT NEWBORN dis.)

SMRKOVAKA, Vera; MULLER, Karel, doc., inz.

Contribution to the quantitative interpretation of magnetic anomalies in sedimentary basins. Sbor VSB Ostrava 8 no.4:463-470 162.

YEROFEYEV, N.I., kand.tekhn.nauk; MILYUKOV, P.M., tekhnik; OBREZANOV, P.I., inzh.; SMRKOVSKIY, E.V.

Program control of a hoisting machine. Mekh. i avtom. proizv.

(MIRA 14:7)

(Hoisting machinery) (Automatic control)

ACCESSION NR: AP4044122

5/0118/64/000/008/0021/0025

AUTHOR: Yerofeyev, N. I. (Candidate of technical sciences); Obrezanov, P. I. (Engineer); Smrkovskiy, E. V. (Engineer); Milyukov, P. M. (Technician)

TITLE: Program control of a gantry crane

SOURCE: Mekhanizatsiya i avtomatizatsiya proizvodstva, no. 8, 1964, 21-25

TOPIC TAGS: program control, automatic control, crane, automatic control system

ABSTRACT: The automation of a grab-bucket gantry crane used for loading-unloading a ship (or a rr car) is described. Prior to automation, the crane operating cycle used to be 60-90 sec, and the crane operator used to perform up to 20,000 switching operations per 8-hr shift. As a result, the crane productivity used to be 15-20% lower than that technically feasible. A magnetic-tape-recorded program control based on a frequency-code system was introduced. A

Card 1/2

ACCESSION NR: AP4044122

simplified connection diagram is presented, and the principal functions of the automatic control (winch and bucket operation, preliminary commands, boom movement, slewing) are briefly explained. Orig. art. has: 1 figure and 1 table.

ASSOCIATION: Odesskiy institut inzhenerov morskogo flota (Odessa Institute of Marine Engineers)

SUBMITTED: 00

ENCL: 00

SUB CODE: IE

NO REF SOV: 000

OTHER: 000

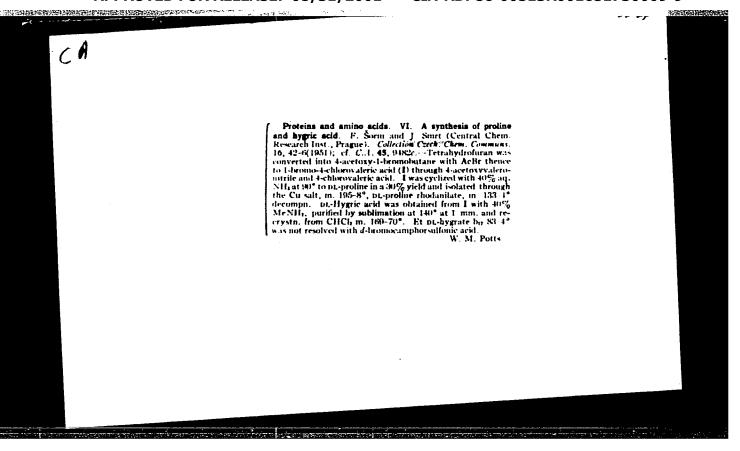
Card 2/2

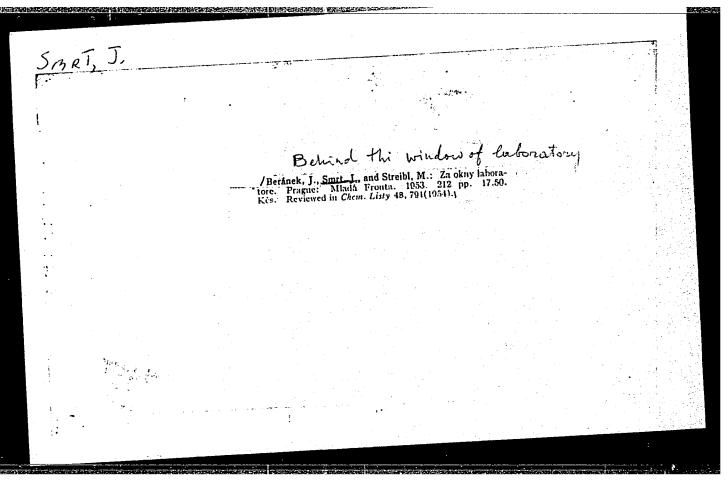
SMROCKOVA, Ludmila, prof.

Exhibition of glass from the collections of Museum of Industrial Art in Budapest. Sklar a keramik 12 no.1:9 Ja '62.

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651730009-9





SMRT, JIRI

Proteins and aminoacids. XII. Synthesis of Conethylandianic, acids. Jiii Sunt and brannick Som (Central Cicient. Inst., Prepis., Creek.). Cellections Cocheston. Chem. Commun. 18, 131-30(1953) English summary; et. C.A. 47, 12452a. — After the failure of the Curtus degradation of ester azide of (cyanocthyl malonic acid, the Schmidt reaction was used for prepis. all three Camethylghramic acids. AccimeCo. Yt I with CH; CHcN (II) gave Eco. CCM-lar. CHis. (III). We was also obtained by hydrolysis of Occ. (III) with was transformed directly to asharily elutanic acid. (IV). We was also obtained by hydrolysis of Occ. (III). VII. (IV). We was also obtained by hydrolysis of Occ. (III). VII. (IV). (IV) can also obtained by hydrolysis of Occ. (III). VII. (III). (IV). (IV) can thing from the action of NiH on Eto. CAMCOLL. (IV). Co. Et. Acc. (ICC.). Et. (VII). VII. and VIII. were transformed to 3-(IX) and scalely/gletanic (X) acids resp., by the Schmidt reaction. McCHCOLE). (IV). III. and VIII. were transformed to 3-(IX) and constitution of the mixt. acidided with HCt (II3) after 3 hrs. reacted with 25 ml. HCC (II). VIII. (IV). (IV Proteins and aminoacids. XII. Synthesis of C-methyl-(1.2002)

CIA-RDP86-00513R001651730009-9" APPROVED FOR RELEASE: 08/31/2001

Sart, J. (2)

(alter crystn. from C₄H₃-petr. ether, m. 85°. V(5 g.) refluxed 4 hrs. with 15 ml. 40% aq. HBr. then evapd., and the residue (6.2 g.) dissolved in 40 ml. McOH and 4 ml. C₄H₃N yielded 1.7 g. (55%) IV. 11. 165° (from H₂O). Vi (30 g.) and 22.5 g. McCH:CHCO₄I' refluxed 15 hrs. with 0.4 g. Na in 20 ml. EtOH, the mixt. acidified, extd. with three 50 ml. portions of ether, and the exts. evapd. yielded 20.5 gl (60%) of VII, b. 122-3°. The Schmidt reaction carried out in the same way as for V gave 17 g. of an oil which was directly hydrolyzed with dil. H₂SO₄ (5 ml. coned. H₂SO₄ in 16 ml. H₂O for 11 g. of the oil) by refluxing 5 hrs.; after the removal of the Ba and SO₄ ions the residue was evapd. to dryness and dissolved in 10 ml. H₂O and 10 ml. EtOH to yield 2 g. IX, m. 151°, [after crystn. from H₂O, m. 162° (decompn.)]. The Schmidt reaction with 30 ml. EtOH to yield 2 g. IX, m. 151°, [after crystn. from H₂O, ml. 162° (decompn.)]. The Schmidt reaction with 30 ml. H₂SO₄ ind removal of the ions yielded 1.2 g. X. m. 153-8° (from 14,O). XIII. Use of azobenzenesulfonyl chloride in deterpolication of end amino acids of peptide chains. Boilon 14,O). XIII. Use of azobenzenesulfonyl chloride in deterpolication of end amino acids of peptide chains. Boilon 15 ksl, Véra (Kraesdové, and Frantisck Sonn (Central Chem. Inst., Prague, Czech.). Itid. 167-70. -b-PhNi-NC4H3SO₂CI (1) was found to be a saintable reagon for detg. the end amino acids in peptide. The mino acid (or peptide) was treated with 1 in dioxace and an equiv. ant, of NatlCO₅ in an ag. medians 2 hr. at room to. p., the H₂O and dioxany were evapd. in vertae, and the residue was discolved in H₂O, end, with CHO to remove unreacted I, and acidinet. The azobenzenesulfonyl deries. (n. s. given) of the following compds. were pripel: closine and the residue was discolved in H₂O, end, with CHO to remove unreacted I, and acidinet. The azobenzenesulfonyl deries (n. s. given) of the following compds. were pripel: closine 170°,

SMRT, J.

SCRM, F., SMRT, J.

"Reaction of Ketene with Acetals of Aldehydes and Ethyl Crthoformate," p. 413.

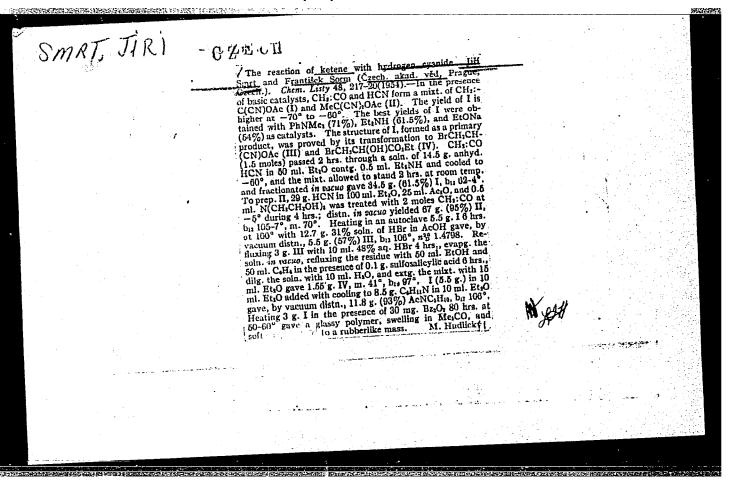
(Chemicke Listy, Vol.47, No.3, Mar. 1953, Praha.)

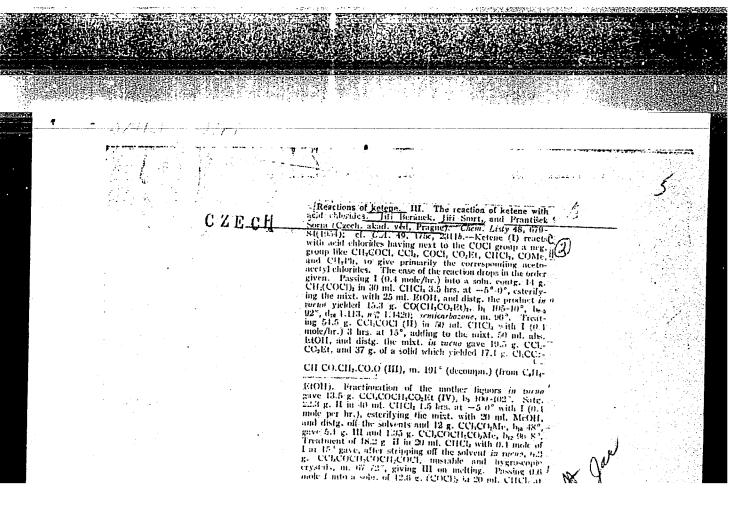
(Chemicke Listy Vol.47, No.3, Mar. 1953, Praha.)

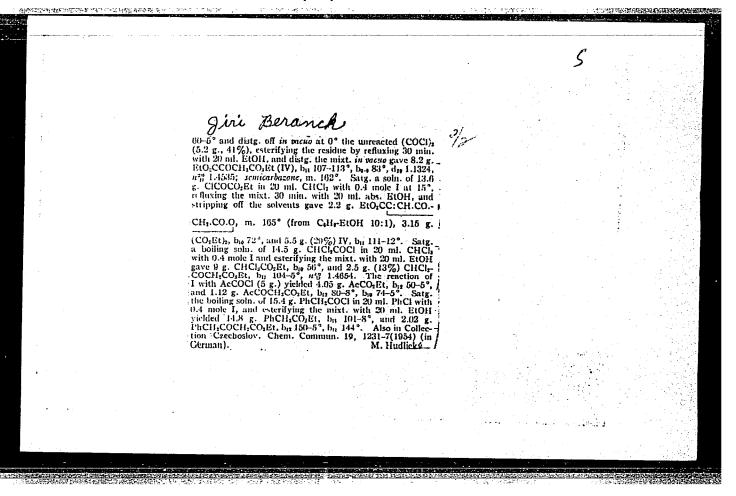
SC: Monthly List of East European Accessions, Vol.2, No.9, Library of Congress, September 1953, Uncl.

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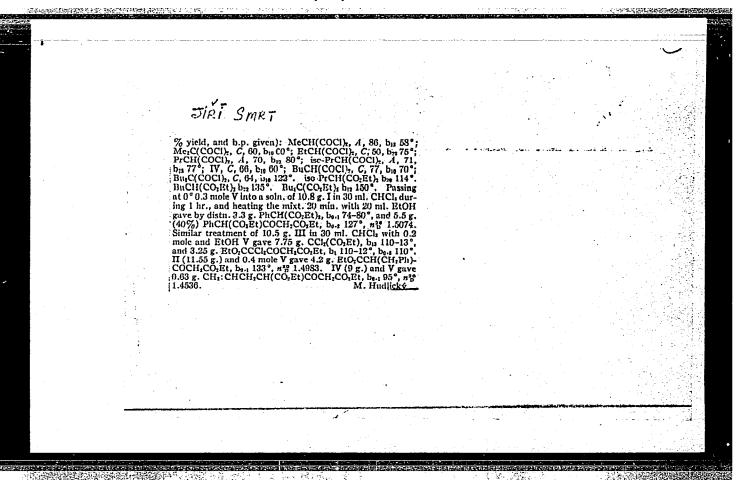




Smit, Jill

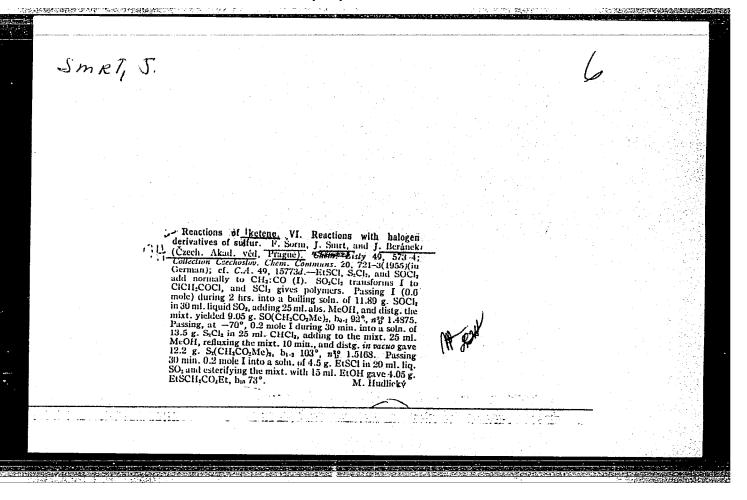
Reactions of ketene. IV. Reaction with acid chlorides in liquid sulfur dioxide. Jiff Surt, Jiff Beranck, and Frantisek Sorm (Czech. Akadrevett: Prague). Chem. Listy 49, 73-7(1955); Collection Czechoslow. Chem. Communs. 20, 285-91(1955)(in German); cf. C.A. 49, 9545c.—Liquid SO₁ proved to be an excellent medium for the reaction of CH₂:CO (I) with acid chlorides. The yields of the appropriate acetoacetic derivs. were approx. twice as high as compared to the yields in CHCls. MeNO₂ was less suitable solvent than CHCl₃, and MeCN gave no yield at all. Reactions were carried out by condensing SO₃ in a flask fitted with a Dry Ice condenser, and by passing I into the liquid SO₂ contg. an acid chloride. EtO₂CCOCI (6.8 g.) in 30 ml. SO₃ was treated during 30 min. with 0.2 mole I, then with 15 ml. abs. EtOH, the mixt, allowed to stand 30 min., and fractionated to give 5.3 g. EtO₂CCOCH₂CO₂Et, bi₃ 104-10°, n⁸₂ 1.4533. CCl₂COCI (9.1 g.), 30 ml. SO₂, 0.3 mole I, and 20 ml. EtOH yielded 7.4 g. CCl₂COCH₂CO₂Et, bi₃ 104-10°, n⁸₃ 1.4533. CCl₂COCI (19.1 g.), 30 ml. SO₂, 0.3 mole I, and EtOH gave 7.4 g. CHCl₃COCI (9.1 g.), 30 ml. SO₂, 0.4 mole I, and EtOH gave 7.4 g. CHCl₃COCI (9.1 g.), 30 ml. SO₂, 0.4 mole I, and EtOH gave 7.4 g. CHCl₃COCH₃CO₂CH₃CO₂CEt, bi₃ 116-20°, n³₃ 1.4531. Passing 0.2 mole I during 1 hr. into 6.35 g. (COCI), in 25 ml. SO₄, allowing the mixt. to stand 30 min., esterifying with 25 ml. abs. EtOH, evangs, in wacue, trenting the cryst.; residue with 5 ml. EtOH, filtering the crystals, and washing them with 3 ml. EtOH, filtering the crystals, and washing them with 3 ml. EtOH, Fractionation of the mother liquor gave 2.1 g. EtO₄CCOCH₄CO₂Et, b₄, 78-80°, and 1.7 g. II, b₆, 110-12°. Total yield of II was 5.4 g. Under the same conditions, I did not react with meso-(Br. CHCOCI), b₁, 102° (prepd. in 99% yield by treating 15.2 g. fumaryl chloride with 16 g. Br at 40° and irradiation).

V. Reaction of ketene with substituted malonyl chlorides. František Šorm, Jiff Beránck, Jiff Smrt, and Jiff Sicher-Chem. Listy 49, 78-81(1955); Collection Ceccholor. Chem. Communs. 20, 593-6(1955) in German).—From many substituted malonyl chlorides tested, only PhCH(COCl)₂ (I), PhCH₂CH(COCl)₃ (II), Cl₂C(COCl)₄ (III) and CH₃: CH₂CH₃CH(COCl)₄ (IV) react with CH₄: CO (V) to give the corresponding dicarboxylates. To prep. I, 10 g. Ph-CH(CO₁H)₄ (VI) in 50 ml. Et₂O were treated with 23 g. PCl₃, the mixt. was refluxed 2-3-hrs., and distd. in vacuo to give 6.8 g. I, b₁ 103-10° (method A). I was hydrolyzed to VI, m. 151°. Treating 8 g. VI with 18.6 g. PCl₃, refluxing the mixt. 2 hrs., and distg. it in vacuo yielded 5.7 g. PhCCl-(COCl)₂, b₃.2 83°; PhCCl(CO₂Et)₃ b₃.144°. PhCH₂CH-(CO₂H)₄ (35 g.) treated with 59 g. SOCl₃, heated 2 hrs. at 80°, and distd. in vacuo yielded 23.5 g. II, b_{1.8} 110-12° (method B). PhCH₂CH(CO₂Et)₂ b₃.125-6°. Refluxing, 17.2 g. CCl₃(CO₃H)₃ and 41 g. PCl₄ 2 hrs. on the steam bath yielded 12.8 g. III, b₂₃ 56-7° (method C). The following acid chlorides were prepd. by methods A, B, and C (method)



"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651730009-9



SMINI, J.

CZECHCSLOVAKIA/Organic Chemistry. Maturally Occurring Substances and their Synthetic Analogs. G-

Abs Jour: Referat Zhur-Khimiya, No 4, 1958, 11457.

Author : Smrt, J., Beranek, J., Sicher, J., and Sorm, F.

Inst :

Title : Synthesis of 4-amin-3-isooxazolidene (Cycloserine)

Orig Pub: Chem Listy, 51, No 1, 112-122 (1957) (in Czech);

Shormik Chekhoslov Khim Rabot, 22, No 1, 262-273

(in English with a summary in Russian)

Abstract: The antibiotic cycloserine (I) (see RZhKhim, 1956,

16239) has been synthesized from the methyl ester of N-tritylserine (II) via the methyl ester of O-mesyl-N-tritylserine (III), 1-trityl-2-carbomethosyethyleneimine (IV), which on reaction with NH2OH.HCl gives

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%

SMRT, J.; BERANEK, J.; SORM, F.

Nucleic-acid components and their analogies. IV. Synthesis of

Nucleic-acid components and their analogies. IV. Synthesis of \$\beta\$ -d-ribofuranosyl-6-azauracil-5\text{*} phosphate and phyrophosphate. Coll Cz Chem 25 no.1:130-137 Ja \(\frac{1}{2}60\). (EEAI 9:12)

1. Department of Organic Synthesis, Institute of Chemistry, Czechoslovak Academy of Science, Prague.

(Nucleic acids) (Phosphates) (Pyrophosphates) (Ribofuranosyltriazinedione)

BERANEK, J.; SMRT, J.

Nucleic-acid components and their analogues. VII.Synthesis of 6-azauracil riboside (6-azauridine) phosphates. Coll Cz Chem 25 no.8:2029-2037 Ag 160. (EEAI 10:9)

1. Department of Organic Synthesis, Institute of Chemistry, Czecho-slovak Academy of Science, Prague.

(Nucleic acids) (Ribofuranosyltriazinedione phosphate) (Azauracil ribosidephosphate)

SHORM, F. [SORN, F.], akademik; CHERNETSKIY, V.P.; KHLADEK, S. [HLADEK, S.]; VESELAY, Y.; SMRT, Y.

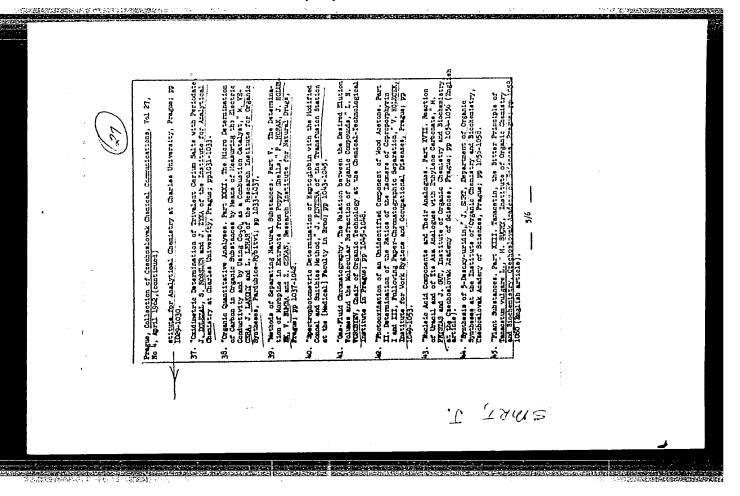
6-Azacytidine andits derivatives. Dokl.AN SSSR 137 no.6:1393-1395 Ap 161. (MIRA 14:4)

l. Institut organicheskoy khimii i biokhimii AN Chekhoslovatskoy SSR, Praga (for all except Chernetskiy). 2. Institut organicheskoy khimii Akademii nauk USSR, Kiyev (for Chernetskiy).

(Azacytidine)

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651730009-9



SMRT, J.

ZEWLICKA, J.

CZECHOSLOVAKIA

no academic degree indicated

Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Science, Prague

Prague, Collection of Czechoslovak Chemical Communications, vol 27, 10 10, Oct 62, pp 2404-2407.

"Phosphates Derived from 3-Hydroxysulpholane and 3-Hydroxysulphol-2-EME as Phosphorylating Agents"

Co-author:

SMRT, J. same as above

ZEMLICKA, J.; SMRT, J.

Phosphates derived from 3-hydroxysulfolane and 3-hyroxysulfol-2-ene as phosphorylating agents. Coll Cz chem 27 no.10:2404-2407 0 '62.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague.

ZEMLICKA, J; BERANEK, J.; SMRT, J.

CSSR

Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Science, Prague (for all)

Prague, Collection of Czechoslovak Chemical Communications, No 12, 1962, pp 2784-2795

"Preparation and Methanolysis of Uridine, 6-Azauridine and 6-Azacytidine 0-Formyl Derivatives"

ZEMLICKA, J.; SMRT, J.; SORM, F.

Nucleic acid components and their analogues. Pt. 27. Coll Cz Chem 28 no.1:241-244 Ja '63.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague.

SMRT, J.; SORM, F.

Oligonucleotidic compounds. Pt.3. Coll Cz Chem 28 no.1:61-71 Ja '63.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague.

SMRT, J; ŠORM, F.

Czechoslovakia

Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Science, --Prague - (for all

Prague, Collection of Czechoslovak Chemical Communications, No 4, 1963, pp 887-897

"Oligonucleotidic Compounds. IV. Preparation of Diribonucleotides Uridylyl- (5' to 3')-Uridine-5' Phosphate, 6-Azauridylyl-(5'to3')-Uridine-5' Phosphate and Uridylyl-(5' to 3')-Cytidine-5' MANAPATAN Phosphate."

7

ZEMLICKA, J.; BERANEK, J.; SMRT, J.

Preparation and methanolysis of uridine, 6-azauridine and 6-azacytidine 0-formyl derivatives. Coll Cz Chem 27 no.12: 2784-2795 D '62.

1. Institute of Organic Chemistry and Biochemistry, Gzechoslovak Academy of Sciences, Prague.

1

CZECHOSŁOVAKIA

SMRT, J; SORM, F.

Institute of Organic Chemistry and Biochemistry of the Czechoslovak Academy of Sciences, Prague (for both)

Prague, Collection of Czechoslovak Chemical Communications, No 9, 1963, pp 2415-2431

"Oligonucleotidic Compounds. VI. Synthesis of Uridylyl-(3'->5')-Uridine-3' Phosphate, Uridylyl-(3'->5')-Cytidine-3' Phosphate, Cytidylyl-(3->5)-Uridine-3' Phosphate, Cytidylyl-(3->5)-Cytidine-3' Phosphate and Related Compounds."

CHLADEK, S.; SMRT, J.

Oligonucleotidic compounds. Pt. 5. Coll Cz Chem 28 no. 5:
1301-1308 My '63.

 Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague.

PITHA, J.; CHLADEK, S.; SMRT, J.

Intramolecular hydrogen bonds in derivatives of nucleosides. Coll Cz Chem 28 no.6:1622-1625 Je 163.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001651730009-9"

SMRT, J.; SORM, F.

Oligonucleotidic compounds. Pts. 6-7. Coll Cz Chem 28 no.9: 2415-2442 S '63.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague.

CHLADEK,S.; SMRT,J.

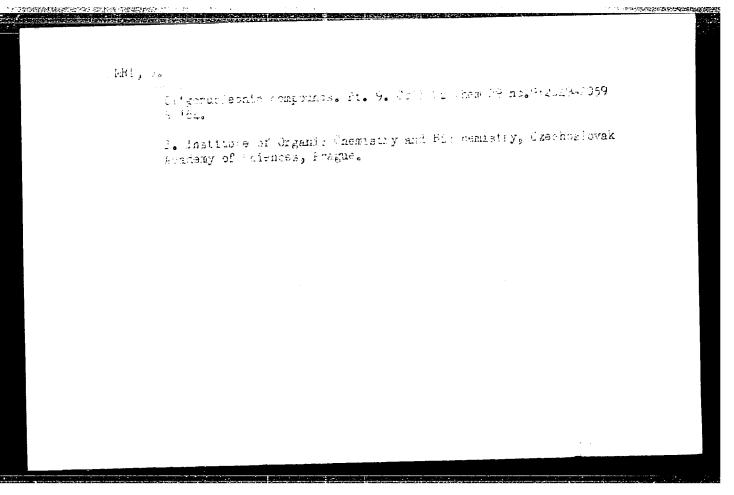
Oligonucleotidic compounds, Pt.8. Coll Cz Chem 29 no.1:214-233 Ja*64

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